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Assessment of the normal fundus

Abstract

Assessment of the normal fundus

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ASSESSMENT OF THE NORMAL FUNDUS

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**ASSESSMENT
OF THE
NORMAL FUNDUS**

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INTRODUCTION

As the recognition of ocular disease is an important part of optometry, the need for comprehensive knowledge of the normal fundus (the posterior surface of the eye comprised of the retina and its blood vessels and nerves) is warranted.

With today's increased understanding and detection of disease, optometrists should be fully prepared to assist in the diagnosis of the abnormal fundus. To provide for better detection of abnormalities a thorough understanding of the normal fundus is essential.

Although the assessment of the fundus is not new to optometry, little has been done to create a modern programmed teaching tool for optometry students and other interested professionals.

HOW TO USE THIS MANUAL

- A) Pretest
- B) Sample slides
 - I. Right vs. Left
 - II. Optic Disc
 - III. Optic Cup
 - IV. Retinal Vessels
 - V. Posterior Pole
 - VI. Macula
 - VII. Variations
- C) Post-test
- D) References

Each area or subcategory is broken down with a brief summary. You will be instructed to observe several slides as examples of that category (each a variation of the normal). Feel free within each category to go back and review as many times as necessary. Repetition will help build your knowledge faster than if you go straight through the manual only once.

Each detailed description in the manual is for a specific slide. Check often that you are reviewing the appropriate material for that slide. For example, slide one material in the manual corresponds to slide one on the screen.

PRETEST

A. Pretest (8 slides)

The form on the following page is a sample slide evaluation form delineating each area to be evaluated. Briefly review this before beginning the Pretest slides. The correct procedure for filling out the slide evaluation form is to circle the appropriate response in each area.

For example:

Fundus: Right (OD) Left (OS)

I. Disc:

A) Shape: (oval) round other: _____

If there is not an appropriate description to circle, fill in your impression in the "other" space.

View slide #1. Slide evaluation forms can be found in the back of the manual. Fill out an evaluation form with your impressions. Continue through the eight slides of the pretest and fill out an evaluation for each one. When you have completed the first eight slides, return to slide #1 and turn the manual to page 5 to the slide #1 description. Review each of the eight slides noting areas of difficulty.

When you have finished reviewing slide #8, turn to page 16, SAMPLE SLIDES and to slide #9. Now you are ready to begin the next section.

SLIDE EVALUATION FORM

AGE: 30

SLIDE# 3 & 4

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **(2)** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 **(2)** 3 4 5 (black)

EYE COLOR: blue **(grey)** green brown

REFRACTIVE ERROR: OD: -4.25 -.50 x 065
OS: -4.50 sphere

SLIDE EVALUATION FORM

SLIDE NO# 3

AGE: 30

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -4.25 - .50 x 065

SKIN TYPE: (fair) 1 (2) 3 4 5 (dark)

HAIR COLOR: (blonde) 1 (2) 3 4 5 (black)

EYE COLOR: blue (gray) green--brown

OS -4.50 sphere

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: OVAL (ROUND) OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: Slightly indistinct

C) RIM COLOR (TRC): (light pink) 1 2 (3) 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .2/.2 (VESSELS) COLOR

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I (II) III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 (4/5) OTHER: _____

B) VESSEL REGULARITY: H (0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A (0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED (RETICULATED/BLONDE)
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 4

AGE: 30

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -4.25 - .50 x 065

SKIN TYPE: (fair) 1 (2) 3 4 5 (dark)

HAIR COLOR: (blonde) 1 (2) 3 4 5 (black)

EYE COLOR: blue (grey) green--brown

OS -4.50 sphere

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: OVAL (ROUND) OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: slightly indistinct

C) RIM COLOR (TRC): (light pink) 1 2 (3) 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .3/.2 (VESSELS) COLOR

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III (IV) OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 (1/2) 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 (1) 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED (RETICULATED/BLONDE)
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS Note that there are two

X CILIO-RETINAL ARTERY

cilio-retinal arteries

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 26

SLIDE# 5 & 6

SEX: F

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **2** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 **2** 3 4 5 (black)

EYE COLOR: blue **grey** green brown

REFRACTIVE ERROR: OD: -2.00 -1.25 x 180
OS: -1.50 sphere

SLIDE EVALUATION FORM

SLIDE NO# 5

AGE: 26

SEX: M **F**

RACE: Caucasian

REFRACTIVE ERROR: OD -2.00 -1.25 x180

SKIN TYPE:(fair) 1 **2** 3 4 5 (dark)

HAIR COLOR:(blonde) 1 **2** 3 4 5 (black)

EYE COLOR: blue **grey** green--brown

OS -1.50 sphere

FUNDUS: **OD** OS

I. OPTIC DISC:

A) SHAPE: **OVAL** ROUND--OTHER: Oval disc tilted nasally

B) MARGINS: **SHARP** BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 **4** 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .25/.2 VESSELS **COLOR**

B) POSITION: **CENTRAL** SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I **II** III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 **2/3** 4/5 OTHER: _____

B) VESSEL REGULARITY: H- **0** 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A- **0** 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: **TESSELLATED** RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT **ABSENT**

B) FOVEAL REFLEX: **PRESENT** ABSENT

VI. VARIATIONS: COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS,(CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 6

AGE: 26

SEX: M (F)

RACE: Caucasian

REFRACTIVE ERROR: OD -2.00 -1.25 x 180

SKIN TYPE: (fair) 1 (2) 3 4 5 (dark)

HAIR COLOR: (blonde) 1 (2) 3 4 5 (black)

EYE COLOR: blue (grey) green--brown

OS -1.50 sphere

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: (OVAL) -ROUND--OTHER: Oval disc tilted nasally

B) MARGINS: (SHARP) -BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 (4) 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .4/.3 VESSELS (COLOR)

B) POSITION: CENTRAL-SUPERIOR-INFERIOR-NASAL (TEMPORAL)

C) ELSCHNIG: I (II) III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 (2/3) 4/5 OTHER: _____

B) VESSEL REGULARITY: H-(0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: (PRESENT) ABSENT

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ X NEVUS OF THE DISC (at 8 o'clock)

SLIDE EVALUATION FORM

AGE: 23

SLIDE# 7 & 8

SEX: M

RACE: ORIENTAL

SKIN TYPE: (fair) 1 2 **3** 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 **5** (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: Plano
OS: Plano

SLIDE EVALUATION FORM

SLIDE NO# 7

AGE: 23

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: (M) F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Oriental

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano

OS Plano

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: (OVAL) ROUND--OTHER: _____

B) MARGINS: (SHARP) BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 3/.3 VESSELS: (COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I (II) III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 (2/3) 4/5 OTHER: _____

B) VESSEL REGULARITY: H (0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A (0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: (PRESENT) ABSENT

B) FOVEAL REFLEX: (PRESENT) ABSENT

VI. VARIATIONS:

COMMENTS Macula reflex incomplete

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 8

AGE: 23

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: (M) F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Oriental

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano

OS Plano

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 3/2 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: II-IV

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 21

SLIDE#9 & 10

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 2 **3** 4 5 (dark)

HAIR COLOR: (blonde) 1 **2** 3 4 5 (black)

EYE COLOR: **blue** grey green brown

REFRACTIVE ERROR: OD: -6.00 sphere
OS: -6.00 sphere

SLIDE EVALUATION FORM

SLIDE NO# 9

AGE: 21
SEX: (M) F

RACE: Caucasian

SKIN TYPE: (fair) 1 2 (3) 4 5 (dark)

HAIR COLOR: (blonde) 1 (2) 3 4 5 (black)

EYE COLOR: (blue) grey--green--brown

REFRACTIVE ERROR: OD -6.00 sphere

OS -6.00 sphere

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: (OVAL) -ROUND--OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: Indistinct 6-12 o'clock

C) RIM COLOR (TRC): (light pink) 1 2 (3) 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 0/0

(VESSELS) (COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: (I) II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: 3/4

B) VESSEL REGULARITY: H-(0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
(RED) SLATE GREY BLACK

V. MACULA:

A) REFLEX: (PRESENT) ABSENT

B) FOVEAL REFLEX: (PRESENT) ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

X CHOROIDAL CRESCENT (6-11 o'clock)

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 10

AGE: 21

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -6.00 sphere

SKIN TYPE: (fair) 1 2 (3) 4 5 (dark)

HAIR COLOR: (blonde) 1 (2) 3 4 5 (black)

EYE COLOR: (blue) grey--green--brown

OS -6.00 sphere

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: (OVAL) ROUND--OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: Slightly indistinct 1-5 o'clock

C) RIM COLOR (TRC): (light pink) 1 2 (3) 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 1/1 (VESSELS COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: (I) II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 (4/5) OTHER: _____

B) VESSEL REGULARITY: H (0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A (0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
(RED) SLATE GREY BLACK

V. MACULA:

A) REFLEX: (PRESENT) ABSENT

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

X SCLERAL CRESCENT (1-5 o'clock)

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

X RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

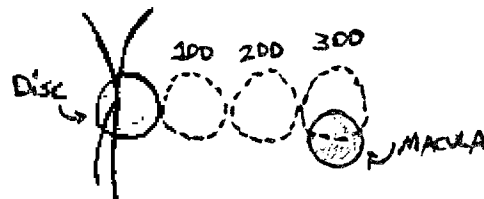
SAMPLE SLIDES

B. SAMPLE SLIDES

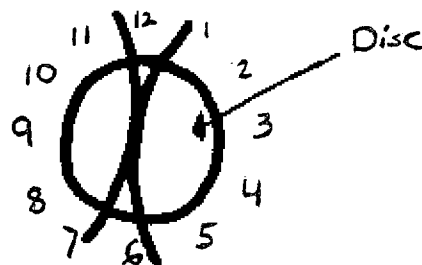
The fundus, (right vs. left), disc, cup, vessels, posterior pole, macula and variations are discussed. There is a description for each followed by slide samples. Read through the general description and view the corresponding slides. When viewing the slides also note the specific comments that are made about each one.

In various places throughout the manual the term disc diameter (DD) will be used as a "fundus ruler."

For example; the macula is usually about 2.5 DD's temporal and slightly inferior to the temporal edge of the disc. See diagram.



Another "localization ruler" is the clock system. The landmarks usually are the optic disc or the macula. For example: if you want to describe a detail near the disc, you imagine the disc to be the face of a clock.



If there is something located at 3 o'clock it would be in the same position as the imaginary 3 o'clock on the disc. This system is used throughout the manual.

*Remember to periodically make sure the slide number matches the manual slide evaluation number or form number.

FUNDUS (RIGHT VS. LEFT)

Fundus (Right vs. Left)

To determine if the slide you are viewing is a right or left fundus, the following hints are useful.

Imagine yourself looking into the right eye of your patient. If you do this, the macula will be located temporally to the optic disc. The vessels also arch toward the macula from the optic disc.

Now look at a right eye on slide #11. The macula is also temporal to the optic disc. This is exactly how you will observe the right eye when doing ophthalmoscopy.

Observe the next slide (#12).

Slide #11 - Right eye

Slide #12 - Left eye

OPTIC DISC

I) Optic Disc:

A. Shape

The disc is the first landmark to be examined and serves as a reference point for locating other areas of the fundus. The normal disc will appear slightly vertically oval. It measures about 1.5 mm in diameter and is the cross section of the optic nerve at its entrance into the globe.

The next 5 slides show disc shape variations.

Slide # 13 - Oval Disc

Slide # 14 - Round Disc

Slide # 15 - Elliptical Disc

Slide # 16 - Tilted disc: Nasally

Slide # 17 - Kidney-shaped Disc

B. Margins

Disc margins are generally sharper on the temporal edge because a smaller number of nerve fibers enter on the temporal side. If the temporal margin is blurred more than the nasal margins this indicates possible presence of disease. The temporal side of the disc is usually paler due to a lower vascular density. When evaluating the margins you should note: sharp vs. blurred and location of the blur, if present (i.e. temporal; nasal; 4 o'clock, 8 o'clock etc.) The following three slides show disc margin variations.

Slide # 18 - Sharp and distinct margins

Slide # 19 - Indistinct margins (nasal greater than temporal).

This blonde fundus shows blurred margins, but the temporal margin is slightly more distinct than the nasal one. Disc margins often appear less distinct in a normal blonde fundus (see next section).

Slide # 20 - Nasal blur from 5 o'clock to 12 o'clock. Distinct temporal margins.

C. Color

It should be noted the optic disc color is viewed relative to the background fundus color. A light complected person normally has a light red fundus color. Therefore, the average hued disc may seem to blend into the fundus and appear redder because of the decreased contrast with the background. The dark complected person with a dark red or slate grey fundus may make the average hued disc appear somewhat pale and very distinct from the background.

With a large disc the nerve fibers are more widely dispersed as is the capillary supply. This results in a paler disc color. In a small disc the nerve fibers and the capillary supply are compacted, resulting in a redder disc color and less distinct margins. In recording the disc color we are concerned with the donut-like rim of pink tissue at the disc margins, particularly on the temporal side. Qualitative color values can be assigned with a reasonable degree of accuracy. Temporal Rim Color (TRC) is classified as follows:

- TRC 1 - white (atrophy)
- 2 - pale orange
- 3 - orange/pink (average)
- 4 - pink/red
- 5 - red

The next 5 slides show differences in TRC.

Slide # 21 - TRC #1 white (atrophy). This is an abnormal atrophic disc.

Slide # 22 - TRC #2 pale orange

Slide # 23 - TRC #3 orange/pink (average)

Slide # 24 - TRC #4 pink/red

Slide # 25 - TRC #5 red

D. Size

The size of the optic disc varies with the diameter of the scleral canal. The optic disc diameter varies from 1.26 mm to 1.6 mm. The direct ophthalmoscope magnifies this view by 14X. If the patient is a high myope the disc appears more magnified, and if a high hyperope the disc will be minified.

The next 2 slides show optic disc size variations

Slide # 26 small optic disc

Slide # 27 large optic disc

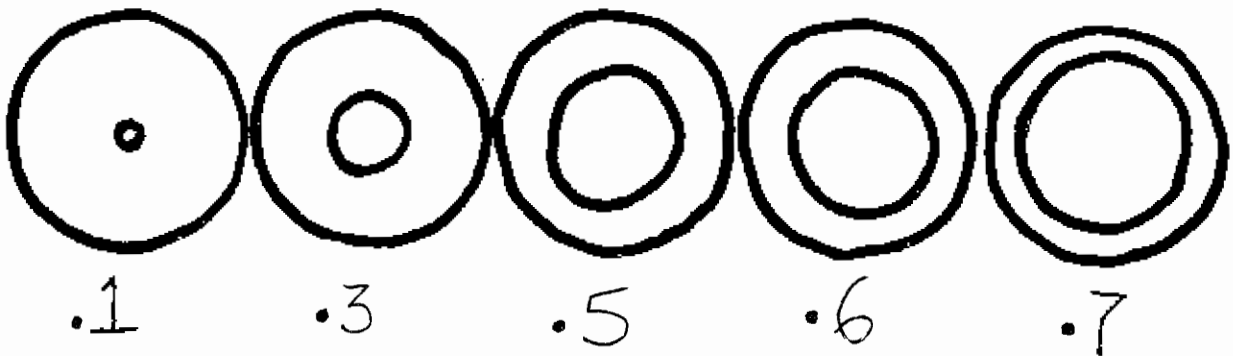
OPTIC CUP

II) Optic Cup

A. Cup/Disc Ratio (C/D ratio)

In the normal eye the C/D ratio is genetically determined and is usually equal in both eyes of the same individual. The C/D ratio is the horizontal and vertical diameter of the optic cup in relation to the horizontal and vertical diameter of the optic disc. The optic cup is a depression at or near the center of the optic disc corresponding to the entrance of the central retinal vessels. A C/D value of 0.1 - 0.5 and no greater interocular variation than 0.2 is considered normal.

Examples of cup/disc ratios



Each fundus is evaluated by defining a C/D ratio horizontally and vertically using vessel deflection and/or color change criteria to define the margins of the cup. Vessel deflection is the sloping of the vessel at the cup margin. Color change is the progression from a lighter central color to the darker temporal rim tissue and helps define the cup margin.

Both methods should be employed as often as possible. The C/D ratio should include horizontal and vertical measurements.

The following 9 slides show various C/D ratios.

Slide # 28 - C/D: 0/0 determined by vessels and color

Slide # 29 - C/D: 15/.15 determined by color

Slide # 30 - C/D: .25/.35 determined by vessels and color

Slide # 31 - C/D: .4/.3 determined by vessels and color

Slide # 32 - C/D: .4/.4 determined by vessels and color

Slide # 33 - C/D: .5/.5 determined by color

Slide # 34 - C/D: .6/.55 determined by color and vessel

Slide # 35 - C/D: .6/.6 determined by color and vessel

Slide # 36 - C/D: .8/.85 determined by color

In contrast to the previous 8 nerve heads this one is suspected of having glaucomatous cupping which is not characteristic of a normal fundus.

In addition to its abnormally large cup note the apparent narrowing of the width of the rim tissue at the 8 o'clock position. This is termed "notching" and is an early sign of localized glaucomatous enlargement of the cup.

B) Optic Cup Position

The optic cup is usually located in the center of the disc, but may be slightly displaced superiorly, inferiorly, nasally, or temporally and still be within normal limits. It should be recorded as C(central), S(superior), I(inferior), N(nasal), T(temporal).

The next 4 slides show varied optic cup positions.

Slide # 37 - Central cup position

38 - Inferior cup position

39 - Superior/Temporal cup position

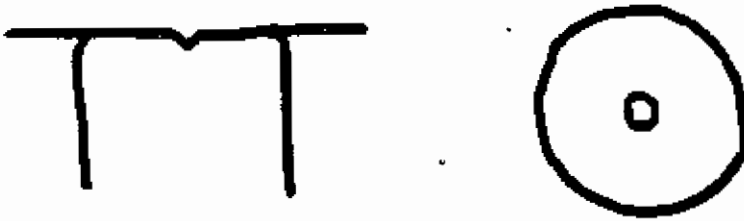
40 - Nasal cup position

C) Elschnig Classification

Shortly after the turn of the century Elschnig proposed a method of optic disc typing. Elschnig disc typings may be characterized as follows:⁴

1) Type I (E-I)

Very little to no physiological cup is present. The surface of the nerve is essentially flat and level with the retinal surface.⁴



2) Type II (E-II)

The physiological cup is cylindrical in shape as shown in both the surface and cross-section diagrams. The appearance is similar to viewing a donut.⁴



3) Type III (E-III)

The cup is saucer-shaped and usually present in the portion of the disc temporal to the location of the central retinal artery and vein.

The excavation covers a large portion of the disc face.⁴



4) Type IV (E-IV)

This is typical myopic cupping. The retinal vessels are pushed toward the nasal border of the disc and a rather wide and deep cup is present, having its greatest depth nasally and becoming increasingly shallow temporally.⁴



The following 4 slides show Elschmig classifications.

Slide # 41 - E-I

Slide # 42 - E-II

Slide # 43 - E-III

Slide # 44 - E-IV

RETINAL VESSELS

III. Retinal Vessels

The central retinal artery and vein normally appear close to each other at the nasal side or the center of the optic disc. Within the disc margin, they usually divide into a large superior and inferior branch and soon after, each of these into a smaller temporal and nasal branch that are termed arterioles and venules. Four principal divisions are thereby formed, supplying the four quadrants of the fundus. Passing through the fundus, the retinal arterioles and venules cross each other at many points, and as a rule, the venule dips below the arteriole at the crossing. In the periphery, the vascular system stops approximately one millimeter behind the ciliary body. In the macular area there is a 0.5 mm capillary free zone called the fovea centralis.²

A) Arteriolar/Venous Ratio (A/V)

The diameter of the arteriole to the corresponding venule should be about .8 (4/5). This is called the arteriolar/venous ratio or A/V ratio. Generally a ratio from .6 (3/5) to .9(9/10) is within normal limits. To accurately judge these diameters you must select vessels that are serving a comparable area beyond the first bifurcation.

The following 4 slides show different A/V ratios.

Slide # 45 The arterioles are 4/5 the size of the venules.

Slide # 46 3/5

Slide # 47 1/2

Arterioles of 1/2 or less the size of the venules warrant further testing for systemic hypertension.

Slide # 48 1/4

Arteriole attenuation denotes hypertensive changes in the vasculature. This is not a normal A/V ratio.

B) Regularity of Vessels

In addition to A/V ratio, the regularity or variation in the caliber of the vessels throughout their course is judged. Irregularities, or focal constrictions, are localized points of constriction along a vessel creating a box-car or sausage link appearance. This is frequently seen in systemic hypertension.

A system generally adopted for recording the normal and hypertensive fundus is as follows:³

- H-O Normal arteriolar/venous size ratio, 2/3 or greater
- H-I Narrowing of retinal arterioles relative to the size of the corresponding venules judged at least 2DD from the disc. (Some tortuosity of the vessels may be observed.)
- H-II Pronounced narrowing of retinal arterioles relative to the size of the corresponding venules. Localized size irregularity (focal constriction) is present.
- H-III Severe narrowing of retinal arterioles relative to the size of the corresponding venules. More frequent focal constrictions. Flame-shaped hemorrhages and cotton-wool exudates.
- H-IV In addition to the above, papilledema and retinal edema are present. (Hard shiny exudates may be present in a severe protracted hypertension, often in the form of a macular star.)

We would like to emphasize that only "H-O and H-1 are normal variations, but we are including the total classification for completeness. H-O is normally found in the younger population and H-1 in the normal older population. The following 2 slides are examples of H-O and H-1 classifications.

Slide # 49 - H-O

Slide # 50 - H-1 (can be an indication of systemic hypertension)

C) Arteriolar Light Reflex

The normal arteriole light reflex (ALR) is created when the light from the ophthalmoscope bounces off the back surface of the arteriole wall. In good vessel health, the width of the reflex is less than 1/2 the width of the blood column.

Involutional sclerosis of the retinal vessels is a physiological process related to aging, normally found in healthy persons in their sixties and older. The condition is seldom present before the age of 50 years in the healthy, and never in the young. The fundus changes consist of some narrowing and slight variations in caliber of the retinal arterioles, broadening of the arteriolar light reflex and minimal arteriovenous crossing phenomena.²

A system generally adopted for recording the ALR is as follows:³

- A-O Normal arteriole light reflex and no crossing changes.
- A-I Slight broadening of the light reflex from the arterioles due to thickening of the walls.
- A-II Increased broadening of the light reflex from the arterioles with tapering of the venules at the crossings.
- A-III Marked broadening of the light reflex from the arterioles with tapering and congestion of the venule on the peripheral side of the crossing.
- A-IV Light reflex nearly as wide as the arterioles producing a silver wire appearance with severe arteriovenous crossing changes.

We'd like to emphasize that only A-0 and A-1 are within normal limits, but we are including the whole arteriosclerosis classification for completeness.

The next 2 slides are examples of the A-0 and A-1 classification.

Slide # 51 - A-0, ALR = $1/3$

Slide # 52 - A-1, An ALR of $1/2$ can be an indication of arteriosclerosis. This is not a normal ALR.

POSTERIOR POLE

IV) Posterior Pole:

A) Overall color

The overall color of the fundus is a result of several layers of pigment. The dark pigments of the choroid and the pigmented epithelium of the retina, combined with the red hues of the vasculature, create the final fundus appearance.

Type of Fundus	Relative amt. of Pig. epith (background)	Relative amt. of Choroidal pigment	Appearance
Slate grey	Heavy	Heavy	Slate or brown background color.
Red	Moderate	Heavy	Brick red uniform color
Tessellated or Tigroid	Light	Heavy	The lighter choroidal vessels are seen against a dark background.
Reticulated or blonde	Light	Light	The darker choroidal vessels are seen against a lighter colored background.

The overall color of the fundus is closely associated with the skin color. For example; caucasians usually have orange/red fundi color, orientals and blacks have grey fundi.

The next 5 slides show overall color differences.

Slide # 53 Blonde/Reticulated

Slide # 54 Tessellated

Slide # 55 Red

Slide # 56 Slate Grey

MACULA

V) Macula

The macula is situated about two and one half disc diameters temporal and slightly inferior to the temporal optic disc margin. It is a horizontally oval area about the same size as the disc, appearing slightly deeper red or darker in color than the adjacent fundus and surrounded by an annular reflex.¹

At the center of the macula, there is a small depression, the fovea, indicated by a deep-red or red-brown color and a small brilliant reflex. The fovea usually reflects the light of the instrument in a direct concentrated beam, so that it is ordinarily detected as a highly illuminated spot or flash. It is more easily observed with the ophthalmoscope than on a slide.

The next 2 slides show the difference between a macula and a foveal reflex.

Slide # 57 Macula reflex

(Annular shaped white reflection)

Slide # 58 Foveal reflex

(Dot-like reflection in the center of the macula)

VARIATIONS

VI) Variations

- A. Cilio-retinal Artery
- B. Pigment Crescent
- C. Choroidal Crescent
- D. Scleral Crescent
- E. Glial Tissue
- F. Epipapillary membrane
- G. Medullated Nerve Fibers
- H. Lamina Cribrosa
- I. Choroidal or Disc Nevus
- J. Drusen
- K. Bear Tracks (Congenital Grouped Hypertrophy of the RPE)
- L. Congenital Hypertrophy of the Retinal Pigment Epithelium (RPE)
- M. Nerve Fiber Layer
- N. Retinal Sheen
- O. Vessel Variations
- P. Right/Left Fundi - similar
- Q. Right/Left Fundi - different

VI) VARIATIONS

A) Cilio-retinal Artery

In about 20% of normal persons a cilio-retinal artery will arise from the temporal side of the disc. These arteries originate from the choroidal circulation and do not communicate with the central retinal artery.⁵

The next 3 slides show cilio-retinal arteries emerging from the temporal side of the disc at about 9 o'clock.

Slide # 59

Slide # 60 (small)

Slide # 61 2 cilio-retinal arteries in the same eye
(note macula is on the far right)

B) Pigment Crescent

A pigment crescent is seen as a dark rim, and is due to the accumulation of pigment at the aperture through which the optic nerve passes.

The following 3 slides show pigment crescents

Slide # 62 Pigment crescent from 8 - 10 o'clock

Slide # 63 Pigment crescent from 6 - 11 o'clock

Slide # 64 Pigment crescent from 1 - 3 o'clock

C) Choroidal Crescent

A choroidal crescent is present when the neurosensory retina does not continue to the edge of the disc, exposing the choroid. It is usually more obvious on the temporal side of the disc.

The following 4 slides show choroidal crescents.

Slide # 65 Choroidal crescent from 1 o'clock to 5 o'clock

Slide # 66 Choroidal crescent from 12:30 to 5:30

Slide # 67 Choroidal crescent from 7 o'clock to 12 o'clock

Slide # 68 Choroidal crescent from 1 o'clock to 5 o'clock

D) Scleral Crescent

A scleral crescent is formed when neither the choroidal nor retinal tissues continue to the disc margin, exposing the sclera.

The following 2 slides show a scleral crescent.

Slide # 69 Scleral Crescent from 1 o'clock to 5:30

Slide # 70 Scleral crescent from 7 o'clock to 11 o'clock

E) Glial Tissue

Glial tissue usually stops at the lamina cribrosa, but may continue further. Because of its obscure nature, careful observation with the ophthalmoscope is needed. Ophthalmoscopically the tissue is seen as faint, white, cotton-like patches that vary in size and shape.

The following slide shows glial tissue.

Slide # 71 There is a tuft of glial tissue found at the emergence of the vessels at the center of the disc.

F) Epipapillary membrane

Throughout the greater part of embryonic life the hyaloid artery and some of the major retinal vessels are sheathed by cells originating from the epithelial papilla of Bergmeister. Shortly before birth, the hyaloid artery and its sheaths atrophy.

Sometimes, remnants of the sheath may remain on the disc, either sheathing the retinal vessels for a short distance or persisting as a well-defined membrane or web of opaque tissue, the epipapillary membrane, stretching over the optic disc or even presenting a more solid prominent mask of tissue in front of the disc known as Bergmeister's papilla.

The next 3 slides show epipapillary membranes.

Slide # 72 epipapillary membrane

Slide # 73 epipapillary membrane

Slide # 74 epipapillary membrane

G) Medullated Nerve Fibers (Myelination)

The normal myelinization of the optic nerve fibers usually stops at the lamina cribrosa. Sometimes, however, myelinization continues into the retina for a variable distance. Medullated nerve fibers are never present at birth, but may develop during the first few months of postnatal life. Once developed, the myelinated nerve fibers remain unchanged throughout life and are generally not associated with any diseased state.⁵ Vision is seldom affected unless the macula is involved. However, macular involvement is rare. Medullated nerve fibers are common and usually unilateral. Ophthalmoscopically the fibers are seen as brilliant-white opaque, silky patches with a finely striated surface and a feathered margin. Most frequently the patches are flame-shaped and situated at the upper or lower margin of the disc.

The next 3 slides show myelination.

Slide # 75 myelin

Slide # 76 myelin

Slide # 77 myelin

H) Lamina Cribrosa

At the entrance of the optic nerve, the sclera thins to a fenestrated membrane (the lamina cribrosa) through which the axons of the optic nerve leave the eye. This structure is often visible as a dark honeycomb pattern on a white background within the cup.

The following 3 slides show lamina cribrosa.

Slide # 78

Slide # 79

Slide # 80

I) Nevus

A choroidal nevus is a relatively common neoplasm consisting of melanocytes. Choroidal nevi have a congenital origin although they do not become evident ophthalmoscopically until puberty or during pregnancy, when all melanocytic cells of the body become active.

Choroidal nevi are usually stationary and benign. They are seen as a flat, circular or oval, slate-grey, greyish-green or bluish patches of nearly uniform density with ill-defined, often somewhat feathered margins and usually about the size of the optic disc. The overlying retina is flat and the retinal vessels lying in front of the nevi appear darker than normal.

A nevus needs to be distinguished from a malignant melanoma which is usually elevated and more irregular in character. Nevi can be found anywhere in the uveal tract and on the disc. These nevi are analogous to freckles on the skin.

The next 4 slides show various nevi.

Slide # 81 Choroidal nevus superiotemporal to the macula.

Slide # 82 Nevus at 8 o'clock on the disc.

Slide # 83 Choroidal nevus 1 1/4 DD superionasal to the disc.

Slide # 84 Nevus at 8 o'clock on the disc.

J) Drusen

of Drusen are commonly seen deposits on Bruch's membrane of the choroid.

Ophthalmoscopically, they are seen as yellowish or yellowish-white pinpoint dots, or larger rounded spots, situated beneath the retinal vessels. They may be few in number or numerous, scattered anywhere in the fundus, and often form large aggregates, especially in the macular area and around the disc. Although drusen are usually benign, the large confluent macular drusen may be precursors to denegeration, especially in the elderly. When large, they may be slightly elevated. At times, particularly in the periphery, a single lesion is bordered by slight pigmentation.

The following 6 slides show various types of drusen.

th Slide # 85 benign posterior pole drusen (particularly on the temporal side of the macula)

Slide # 86 benign posterior pole drusen

Slide # 87 macular drusen

Slide # 88 confluent macular drusen. This type of drusen can lead to visual loss in certain elderly individuals and needs to be followed.

Slide # 89 Peripapillary drusen of the optic disc may be observed at any age and the condition is frequently bilateral.

In contrast to the previous slides of retinal drusen, drusen of the optic disc are abnormal deposits of hyaline within the nerve tissue.

Slide # 90 Abnormal optic disc drusen. The disc margin is irregular and the disc often shows an apparent increase in size and elevation due to the hyaline bodies.

K) Bear Tracks (Congenital Grouped Hypertrophy of the RPE)

Grouped pigmentation of the retina is a rare congenital anomaly characterized by non-progressive hyperplastic aggregations of the pigment cells of the retinal epithelium. The condition is nearly always unilateral and does not cause any visual disturbances.

The pigmentations are seen as sharply defined, rounded or angular, greyish-brown, dark-brown or nearly black patches, frequently grouped in a manner resembling the footprints of an animal (bear tracks) or arranged in quite irregular masses. The size varies from small dots to disc size. The pigmentations are frequently confined to a single sector of the fundus, becoming larger as they approach the periphery. The posterior pole and the macula are usually not involved. The retinal vessels pass in front of the pigmentations.

The ophthalmoscopic picture of grouped pigmentation of the retina is very characteristic, and should not be confused with choroidal nevi or malignant choroidal melanoma.²

The following slide shows bear tracks

Slide # 91

L) Congenital Hypertrophy of the Retinal Pigment

Epithelium (RPE)

Congenital hypertrophy of the RPE occurs as a flat, round, usually hyperpigmented fundus lesion. Often a thin hypopigmented ring comprises the border of this lesion. In contrast to inflammatory diseases, which produce RPE hyperplasia with rough edges, the margins of congenital hypertrophy of the RPE are well delineated. Overlying photoreceptor elements have been shown to be degenerated, which explains the localized visual field defects corresponding to these areas.

Congenital hypertrophy of the RPE has no malignant potential. It should not be confused with choroidal nevi or melanomas because congenital hypertrophy is flat, is usually black, and has sharp borders.⁶

The following 2 slides show hypertrophy of the RPE.

Slide # 92 hypertrophy of the RPE

Slide # 93 RPE hypertrophy which may be secondary to an inflammation.

M) Nerve Fiber Layer

Notice the white sheen arching away from the disc. This is the normal nerve fiber layer (NFL) bundle as it follows the arterio-venous arch towards the macula. It is most easily seen in young individuals.

The following 2 slides show the nerve fiber layer.

Slide # 94 NFL

Slide # 95 NFL

N) Retinal Sheen

The retinal sheen is the glistening reflection of the ophthalmoscope light off the internal limiting membrane in a young healthy fundus. The fundus almost has a "wet look."

The following slide shows retinal sheen.

Slide # 96 Retinal Sheen

O) Vessel variations

There are frequently very interesting variations of vessel appearance that are still within normal limits.

Side # 97 Arterio-venule spiral at the superior portion of
 the optic disc.

Slide # 98 Presumed congenital tortuosity

Slide # 99 Vessel forking around the macula

P) Similar Right/Left Fundi

The majority of the population has similar right and left fundi, however, a certain degree of interocular variation can be observed in nondiseased eyes.

In the following pair of eyes the fundus characteristics are very similar.

Slide # 100 - Right (C/D .35/.35 E-II)

Slide # 101 - Left (C/D .35/.35 E-II)

Q) Different Right/Left Fundi

These fundi are within normal limits but notice the interocular variability especially in C/D ratio and Elschmig type.

Slide # 102 Right (C/D .3/.5 E-IV)

Slide # 103 Left (C/D .5/.6 E-IV)

Slide # 104 Right (C/D .3/.3 E-II)

Slide # 105 Left (C/D .45/.45 E-IV)

POST-TEST

Now that you've completed the sample slide portion of the program, the following slides will be presented in a testing format.

The test begins with slide #106. Basic background information is provided to aid you in your evaluation. This information precedes each set of answer sheets, beginning on page 54. This information may be transferred to your blank evaluation form. The procedures for taking the test are as follows:

- 1) The following 36 slides are presented as right/left pairs. A blank slide evaluation form should be filled out for each slide.
- 2) After each pair of slides is evaluated, compare your answers with the appropriate completed evaluation form in the manual.
- 3) Continue in this fashion through the remaining 34 slides.
- 4) If you had particular difficulty with any set of slides, feel free to go back and review the troublesome areas.

SLIDE EVALUATION FORM

AGE: 30

SLIDE# 106 & 107

SEX: F

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 (2) 3 4 5 (dark)

HAIR COLOR: (blonde) 1 (2) 3 4 5 (black)

EYE COLOR: (blue) grey green brown

REFRACTIVE ERROR: OD: -.50 -1.25 x 075
OS: -.50 -1.25 x 150

SLIDE EVALUATION FORM

SLIDE NO# 106

AGE: 30

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: M F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue grey--green--brown

REFRACTIVE ERROR: OD -50 -1.25 x 075

OS -50 -1.25 x 150

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL--ROUND--OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: Indistinct nasally 12-6 o'clock

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .25/.25 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 107

AGE: 30

SEX: M ☒ F

RACE: Caucasian

REFRACTIVE ERROR: OD -.50 -1.25 x 075

SKIN TYPE: (fair) 1 ☒ 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 ☒ 2 3 4 5 (black)

EYE COLOR: ☒ blue ☐ grey ☐ green ☐ brown

OS -.50 -1.25 x 150

FUNDUS: OD ☒ OS

I. OPTIC DISC:

A) SHAPE: ☒ OVAL ☐ ROUND ☐ OTHER: Tilted nasally

B) MARGINS: ☐ SHARP ☐ BLURRED ☐ OTHER: Indistinct nasally 6-12 o'clock

C) RIM COLOR (TRC): (light pink) 1 ☒ 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .25/.25 ☒ VESSELS ☒ COLOR

B) POSITION: ☒ CENTRAL ☐ SUPERIOR ☐ INFERIOR ☐ NASAL ☐ TEMPORAL

C) ELSCHNIG: I ☒ II ☐ III ☐ IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 ☒ 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H ☒ 0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A ☒ 0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED ☐ RETICULATED/BLONDE

☒ RED ☐ SLATE GREY ☐ BLACK

V. MACULA:

A) REFLEX: PRESENT ☒ ABSENT

B) FOVEAL REFLEX: PRESENT ☒ ABSENT

VI. VARIATIONS:

COMMENTS _____

☐ CILIO-RETINAL ARTERY

☐ PIGMENT CRESCENT

☐ CHOROIDAL CRESCENT

☐ SCLERAL CRESCENT

☐ GLIAL TISSUE

☐ EPIPAPILLARY MEMBRANE

☐ MEDULLATED NERVE FIBERS

☐ LAMINA CRIBROSA

☐ CHOROIDAL NEVUS

☐ DRUSEN

☐ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

☐ CONGENITAL HYPERTROPHY OF THE RPE

☐ NERVE FIBER LAYER

☐ RETINAL SHEEN

☐ VESSEL VARIATIONS

☐ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 23

SLIDE# 108 & 109

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **2** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 **2** 3 4 5 (black)

EYE COLOR: blue **grey** green brown

REFRACTIVE ERROR: OD: -1.25 -.50 x 175
OS: -2.75 -.75 x 180

SLIDE EVALUATION FORM

SLIDE NO# 108

AGE: 23 SKIN TYPE: (fair) 1 2 3 4 5 (dark)
 SEX: (M) F HAIR COLOR: (blonde) 1 2 3 4 5 (black)
 RACE: Caucasian EYE COLOR: blue- grey -green--brown
 REFRACTIVE ERROR: OD -1.25 - .50 x175
 OS -2.75 - .75 x 180

FUNDUS: (OD) OS

I. OPTIC DISC:

- A) SHAPE: OVAL--ROUND--OTHER: Elliptical
 B) MARGINS: SHARP--BLURRED--OTHER: Indistinct 1-5 o'clock
 C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

- A) C/D RATIO: H/V .25/.25 VESSELS COLOR
 B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL
 C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

- A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: 3/5
 B) VESSEL REGULARITY: H 0 1 2 3 4
 C) ARTERIAL LIGHT REFLEX (ALR): A 0 1 2 3 4

IV. POSTERIOR POLE:

- A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
 RED SLATE GREY BLACK

V. MACULA:

- A) REFLEX: PRESENT ABSENT
 B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

- ___ CILIO-RETINAL ARTERY
 ___ PIGMENT CRESCENT
X CHOROIDAL CRESCENT (7-11 o'clock)
 ___ SCLERAL CRESCENT
 ___ GLIAL TISSUE
 ___ EPIPAPILLARY MEMBRANE
 ___ MEDULLATED NERVE FIBERS
 ___ LAMINA CRIBROSA
X CHOROIDAL NEVUS (1.25 DD superionasal to disc)
 ___ DRUSEN
 ___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)
 ___ CONGENITAL HYPERTROPHY OF THE RPE
X NERVE FIBER LAYER
 ___ RETINAL SHEEN
 ___ VESSEL VARIATIONS
 ___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 109

AGE: 23

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -1.25 -.50 x 175

OS -2.75 -.75 x 180

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue-(grey)-green--brown

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: OVAL-(ROUND)-OTHER: small

B) MARGINS: SHARP--BLURRED--OTHER: Indistinct 7-11 o'clock

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .25/.25 VESSELS-(COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III (IV) OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 (1/2) 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 (1) 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A (0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

x CHOROIDAL CRESCENT (2-5 o'clock)

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

x NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 29

SLIDE# 110 & 111

SEX: F

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **2** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 **3** 4 5 (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: Plano
OS: Plano

SLIDE EVALUATION FORM

SLIDE NO# 110

AGE: 29

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: M F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano

OS Plano

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: Small

B) MARGINS: SHARP BLURRED OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 3/3 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 111

AGE: 29

SEX: M F

RACE: Caucasian

REFRACTIVE ERROR: OD Plano

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue--grey--green brown

OS Plano

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: Small

B) MARGINS: SHARP BLURRED OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 3/3

VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H 0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A 0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE

RED

SLATE GREY

BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 33

SLIDE# 112 & 113

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **2** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 **2** 3 4 5 (black)

EYE COLOR: **blue** grey green brown

REFRACTIVE ERROR: OD: -6.00 sphere
OS: -6.00 sphere

SLIDE EVALUATION FORM

SLIDE NO# 112

AGE: 33 SKIN TYPE: (fair) 1 2 3 4 5 (dark)
 SEX: (M) F HAIR COLOR: (blonde) 1 2 3 4 5 (black)
 RACE: Caucasian EYE COLOR: blue grey--green--brown
 REFRACTIVE ERROR: OD -6.00 sphere
 OS -6.00 sphere

FUNDUS: (OD) OS

I. OPTIC DISC:

- A) SHAPE: OVAL ROUND OTHER: _____
 B) MARGINS: SHARP BLURRED--OTHER: _____
 C) RIM COLOR (IRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

- A) C/D RATIO: H/V .4/.3 VESSELS COLOR
 B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL
 C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

- A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: 3/4
 B) VESSEL REGULARITY: H 0 1 2 3 4
 C) ARTERIAL LIGHT REFLEX (ALR): A 0 1 2 3 4

IV. POSTERIOR POLE:

- A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

- A) REFLEX: PRESENT ABSENT
 B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS Note the difference in disc size compared to the left eye.

- CILIO-RETINAL ARTERY
 PIGMENT CRESCENT
X CHOROIDAL CRESCENT (7-11 o'clock)
 SCLERAL CRESCENT
 GLIAL TISSUE
 EPIPAPILLARY MEMBRANE
X MEDULLATED NERVE FIBERS (at 7 o'clock)
 LAMINA CRIBROSA
 CHOROIDAL NEVUS
 DRUSEN
 BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)
 CONGENITAL HYPERTROPHY OF THE RPE
 NERVE FIBER LAYER
 RETINAL SHEEN
 VESSEL VARIATIONS
 NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 113

AGE: 33

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -6.00 sphere

OS -6.00 sphere

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: (blue) grey--green--brown

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: (OVAL) ROUND--OTHER: Tilted nasally

B) MARGINS: SHARP--BLURRED--OTHER: slightly indistinct nasally

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .5/.35 VESSELS (COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III (IV) OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: 3/4

B) VESSEL REGULARITY: H-(0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
(RED) SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS Small disc

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

X CHOROIDAL CRESCENT (12-6 o'clock)

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 26

SLIDE# 114 & 115

SEX: M

RACE: ORIENTAL

SKIN TYPE: (fair) 1 2 **3** 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 **5** (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: -1.75 sphere
OS: -1.75 sphere

SLIDE EVALUATION FORM

SLIDE NO# 114

AGE: 26

SEX: (M) F

RACE: Oriental

REFRACTIVE ERROR: OD -1.75

SKIN TYPE:(fair) 1 2 (3) 4 5 (dark)

HAIR COLOR:(blonde) 1 2 3 4 (5) (black)

EYE COLOR: blue--grey--green--(brown)

OS -1.75

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: OVAL--ROUND--OTHER: Kidney shaped

B) MARGINS: SHARP--BLURRED--OTHER: Slight nasal blur

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .2/.3 VESSLS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: 3/5

B) VESSEL REGULARITY: H-(0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS,(CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 115

AGE: 26

SEX: (M) F

RACE: Oriental

REFRACTIVE ERROR: OD -1.75 sphere

SKIN TYPE: (fair) 1 2 (3) 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 (5) (black)

EYE COLOR: blue--grey--green--(brown)

OS -1.75 sphere

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: OVAL--ROUND--OTHER: Kidney shaped

B) MARGINS: (SHARP)--BLURRED--OTHER: slight nasal blur

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .35/.4

(VESSELS COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III (IV) OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 (1/2) 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 (1) 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 26

SLIDE# 116 & 117

SEX: F

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **2** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 **2** 3 4 5 (black)

EYE COLOR: blue **grey** green brown

REFRACTIVE ERROR: OD: +.75 -.25 x 175
OS: +.50 -.25 x 180

SLIDE EVALUATION FORM

SLIDE NO# 116

AGE: 26

SEX: M F

RACE: Caucasian

REFRACTIVE ERROR: OD + .75 - .25 x 175

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue grey -green--brown

OS + .50 - .25 x 180

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVA! -ROUND--OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: Indistinct 10-6 o'clock

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 25/3 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR INFERIOR NASAL TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED

RETICULATED/BLONDE

RED

SLATE GREY

BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

X EPIPAPILLARY MEMBRANE (3-6 o'clock)

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 117

AGE: 26

SEX: M F

RACE: Caucasian

REFRACTIVE ERROR: OD + .75 - .25 x175

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue-grey-green--brown

OS + .50 - .25 x180

FUNDUS: OD OS

I. OPTIC DISC:

- A) SHAPE: OVAL -ROUND--OTHER: Tilted nasally
 B) MARGINS: SHARP--BLURRED--OTHER: Indistinct from 9-10 o'clock
 C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

- A) C/D RATIO: H/V .25/.3 VESSELS COLOR
 B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL
 C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

- A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____
 B) VESSEL REGULARITY: H 0 1 2 3 4
 C) ARTERIAL LIGHT REFLEX (ALR): A 0 1 2 3 4

IV. POSTERIOR POLE:

- A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
 RED SLATE GREY BLACK

V. MACULA:

- A) REFLEX: PRESENT ABSENT
 B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

- CILIO-RETINAL ARTERY
X PIGMENT CRESCENT (6-9 o'clock)
 CHOROIDAL CRESCENT
 SCLERAL CRESCENT
 GLIAL TISSUE
 EPIPAPILLARY MEMBRANE
 MEDULLATED NERVE FIBERS
 LAMINA CRIBROSA
 CHOROIDAL NEVUS
 DRUSEN
 BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)
 CONGENITAL HYPERTROPHY OF THE RPE
X NERVE FIBER LAYER
 RETINAL SHEEN
 VESSEL VARIATIONS
 NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 23

SLIDE# 118 & 119

SEX: M

RACE: ORIENTAL

SKIN TYPE: (fair) 1 2 3 **4** 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 **5** (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: +.25 -2.25 x 170
OS: +.25 -150 x 003

SLIDE EVALUATION FORM

SLIDE NO# 118

AGE: 23

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: (M) F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Oriental

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD + .25 -2.25 x170
OS + .25 -1.50 x003

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: OVAL ~~ROUND~~ OTHER: _____

B) MARGINS: SHARP ~~BLURRED~~ OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .6/.6 VESSELS COLOR

B) POSITION: CENTRAL ~~SUPERIOR~~ ~~INFERIOR~~ ~~NASAL~~ ~~TEMPORAL~~

C) ELSCHNIG: I ~~II~~ ~~III~~ ~~IV~~ OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H- 0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A- 0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED ~~RETICULATED~~ ~~BLONDE~~
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ~~ABSENT~~

B) FOVEAL REFLEX: PRESENT ~~ABSENT~~

VI. VARIATIONS:

COMMENTS Small foveal reflex

 CILIO-RETINAL ARTERY

 PIGMENT CRESCENT

 CHOROIDAL CRESCENT

 SCLERAL CRESCENT

 GLIAL TISSUE

 EPIPAPILLARY MEMBRANE

 MEDULLATED NERVE FIBERS

 LAMINA CRIBROSA

 CHOROIDAL NEVUS

 DRUSEN

 BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

 CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

X RETINAL SHEEN

X VESSEL VARIATIONS (note vessels at the disc)

 NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 119

AGE: 23

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: M F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Oriental

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD + .25 -2.25 x 170

OS + .25 -1.50 x 003

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP BLURRED OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .65/.65 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR INFERIOR NASAL TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETIKULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

___ RETINAL SHEEN

X VESSEL VARIATIONS (note "treble cleft" on the cup surface)

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 23

SLIDE# 120 &121

SEX: M

RACE:CAUCASIAN

SKIN TYPE: (fair) 1 2 **3** 4 5 (dark)

HAIR COLOR: (blonde) 1 **2** 3 4 5 (black)

EYE COLOR: blue grey **green** brown

REFRACTIVE ERROR: OD: -.75 -.50 x 120
OS: -.75 -.75 x 005

SLIDE EVALUATION FORM

SLIDE NO# 120

AGE: 23
SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -.75 -.50 x 120

OS -.75 -.75 x005

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue-grey (green) brown

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: (OVAL) ROUND--OTHER: _____

B) MARGINS: (SHARP) BLURRED--OTHER: Tilted nasally

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 2/2 (VESSELS) (COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I (II) III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 (2/3) 4/5 OTHER: _____

B) VESSEL REGULARITY: H (0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A (0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: (PRESENT) ABSENT

B) FOVEAL REFLEX: (PRESENT) ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 121

AGE: 23

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: M F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD -.75 -.50 x 120

OS -.75 -.50 x 005

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL -ROUND--OTHER: Tilted nasally

B) MARGINS: SHARP -BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .2/.2 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

X CILIO-RETINAL ARTERY

____ PIGMENT CRESCENT

____ CHOROIDAL CRESCENT

____ SCLERAL CRESCENT

____ GLIAL TISSUE

____ EPIPAPILLARY MEMBRANE

____ MEDULLATED NERVE FIBERS

____ LAMINA CRIBROSA

____ CHOROIDAL NEVUS

____ DRUSEN

____ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

____ CONGENITAL HYPERTROPHY OF THE RPE

____ NERVE FIBER LAYER

X RETINAL SHEEN

____ VESSEL VARIATIONS

____ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 26

SLIDE# 122 & 123

SEX: F

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 2 **3** 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 **4** 5 (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: -4.00 sphere
OS: -4.00 sphere

SLIDE EVALUATION FORM

SLIDE NO# 122

AGE: 26

SEX: M (F)

RACE: Caucasian

REFRACTIVE ERROR: OD -4.00 sphere

OS -4.00 sphere

SKIN TYPE: (fair) 1 2 (3) 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 (4) 5 (black)

EYE COLOR: blue--grey--green (brown)

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: OVAL (ROUND) OTHER: _____

B) MARGINS: (SHARP) BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 (2) 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 3/.3 (VESSELS) COLOR

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: II/IV

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 (4/5) OTHER: _____

B) VESSEL REGULARITY: H (0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A (0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: (PRESENT) ABSENT

VI. VARIATIONS:

COMMENTS _____

 CILIO-RETINAL ARTERY

X PIGMENT CRESCENT (2-4 o'clock; 6-9 o'clock)

 CHOROIDAL CRESCENT

 SCLERAL CRESCENT

 GLIAL TISSUE

 EPIPAPILLARY MEMBRANE

 MEDULLATED NERVE FIBERS

 LAMINA CRIBROSA

 CHOROIDAL NEVUS

 DRUSEN

 BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

 CONGENITAL HYPERTROPHY OF THE RPE

 NERVE FIBER LAYER

 RETINAL SHEEN

 VESSEL VARIATIONS

X NEVUS OF THE DISC (8 o'clock) 79

SLIDE EVALUATION FORM

SLIDE NO# 123

AGE: 26

SKIN TYPE:(fair) 1 2 3 4 5 (dark)

SEX: M F

HAIR COLOR:(blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue--grey--green brown

REFRACTIVE ERROR: OD -4.00 sphere

OS -4.00 sphere

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 15/15 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H 0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A 0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

 CILIO-RETINAL ARTERY

X PIGMENT CRESCENT (3-9 o'clock)

 CHOROIDAL CRESCENT

 SCLERAL CRESCENT

 GLIAL TISSUE

 EPIPAPILLARY MEMBRANE

 MEDULLATED NERVE FIBERS

 LAMINA CRIBROSA

 CHOROIDAL NEVUS

 DRUSEN

 BEAR TRACKS,(CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

 CONGENITAL HYPERTROPHY OF THE RPE

 NERVE FIBER LAYER

 RETINAL SHEEN

 VESSEL VARIATIONS

 NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 21

SLIDE# 124 & 125

SEX: F

RACE: EAST INDIAN

SKIN TYPE: (fair) 1 2 3 **4** 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 **5** (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: Plano
OS: Plano

SLIDE EVALUATION FORM

SLIDE NO# 124

AGE: 21
SEX: M (F)
RACE: East Indian

SKIN TYPE: (fair) 1 2 3 4 5 (dark)
HAIR COLOR: (blonde) 1 2 3 4 5 (black)
EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano
OS Plano

FUNDUS: (OD) OS

I. OPTIC DISC:

- A) SHAPE: OVAL ROUND--OTHER: _____
B) MARGINS: SHARP BLURRED--OTHER: _____
C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

- A) C/D RATIO: H/V .3/.3 VESSLS COLOR
B) POSITION: CENTRAL SUPERIOR INFERIOR-NASAL-TEMPORAL
C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

- A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: 3/5
B) VESSEL REGULARITY: H- 0 1 2 3 4
C) ARTERIAL LIGHT REFLEX (ALR): A- 0 1 2 3 4

IV. POSTERIOR POLE:

- A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

- A) REFLEX: PRESENT ABSENT
B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS: _____

- ___ CILIO-RETINAL ARTERY
___ PIGMENT CRESCENT
X CHOROIDAL CRESCENT (3-5 o'clock)
___ SCLERAL CRESCENT
___ GLIAL TISSUE
___ EPIPAPILLARY MEMBRANE
___ MEDULLATED NERVE FIBERS
___ LAMINA CRIBROSA
___ CHOROIDAL NEVUS
X DRUSEN (posterior pole)
___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)
___ CONGENITAL HYPERTROPHY OF THE RPE
X NERVE FIBER LAYER
X RETINAL SHEEN
___ VESSEL VARIATIONS
___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 125

AGE: 21

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: M F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: East Indian

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano

OS Plano

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL -ROUND--OTHER: Irregular oval

B) MARGINS: SHARP -BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .3/.3 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR INFERIOR-NASAL TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

X CILIO-RETINAL ARTERY

 PIGMENT CRESCENT

X CHOROIDAL CRESCENT (12-5 o'clock)

 SCLERAL CRESCENT

 GLIAL TISSUE

 EPIPAPILLARY MEMBRANE

 MEDULLATED NERVE FIBERS

 LAMINA CRIBROSA

 CHOROIDAL NEVUS

X DRUSEN (posterior pole)

 BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

 CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

X RETINAL SHEEN

 VESSEL VARIATIONS

 NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 22

SLIDE# 126 & 127

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **2** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 **3** 4 5 (black)

EYE COLOR: **blue** grey green brown

REFRACTIVE ERROR: OD: +4.00 -.75 x 180
OS: +3.00 -.50 x 010

SLIDE EVALUATION FORM

SLIDE NO# 126

AGE: 22

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD +4.00 - .75 x180

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: (blue) grey--green--brown

OS +3.00 - .50 x 010

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: OVAL (ROUND) OTHER: _____

B) MARGINS: SHARP (BLURRED) OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .3/.3 (VESSELS) (COLOR)

B) POSITION: CENTRAL-SUPERIOR-INFERIOR (NASAL) TEMPORAL

C) ELSCHNIG: I (II) III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 (4/5) OTHER: _____

B) VESSEL REGULARITY: H-(0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED (RETICULATED/BLONDE)
(RED) SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: (PRESENT) ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

X GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 127

AGE: 22 SKIN TYPE: (fair) 1 2 3 4 5 (dark)
 SEX: (M) F HAIR COLOR: (blonde) 1 2 3 4 5 (black)
 RACE: Caucasian EYE COLOR: blue grey--green--brown
 REFRACTIVE ERROR: OD +4.00 - .75 x180
 OS +3.00 - .50 x010

FUNDUS: OD (OS)

I. OPTIC DISC:

- A) SHAPE: OVAL ROUND OTHER: _____
 B) MARGINS: SHARP BLURRED OTHER: _____
 C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

- A) C/D RATIO: H/V 3/3 VESSELS COLOR
 B) POSITION: CENTRAL-SUPERIOR-INFERIOR NASAL TEMPORAL
 C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

- A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____
 B) VESSEL REGULARITY: H-0 1 2 3 4
 C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

- A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

- A) REFLEX: PRESENT ABSENT
 B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

- ___ CILIO-RETINAL ARTERY
 ___ PIGMENT CRESCENT
 ___ CHOROIDAL CRESCENT
 ___ SCLERAL CRESCENT
 ___ GLIAL TISSUE
 ___ EPIPAPILLARY MEMBRANE
 ___ MEDULLATED NERVE FIBERS
 ___ LAMINA CRIBROSA
 ___ CHOROIDAL NEVUS
 ___ DRUSEN
 ___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)
 ___ CONGENITAL HYPERTROPHY OF THE RPE
 ___ NERVE FIBER LAYER
 ___ RETINAL SHEEN
 ___ VESSEL VARIATIONS
 ___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 24

SLIDE# 128 & 129

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 2 3 **4** 5 (dark)

HAIR COLOR: (blonde) 1 2 3 **4** 5 (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: -.50 sphere
OS: -.75 sphere

SLIDE EVALUATION FORM

SLIDE NO# 128

AGE: 24

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -.50 sphere

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue--grey--green--brown

OS -.75 sphere

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .1/.1 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

X PIGMENT CRESCENT (7-10 o'clock)

X CHOROIDAL CRESCENT (7-10 o'clock)

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

X VESSEL VARIATIONS (presumed congenital tortuosity)

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 129

AGE: 24

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD -.50

OS -.75

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue--grey--green brown

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: Indistinct nasally

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 1/.1 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A 0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

X SCLERAL CRESCENT (1-4 o'clock)

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

X VESSEL VARIATIONS (presumed congenital tortuosity)

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 21

SLIDE# 130 & 131

SEX: F

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 ② 3 4 5 (dark)

HAIR COLOR: (blonde) ① 2 3 4 5 (black)

EYE COLOR: ③ blue grey green brown

REFRACTIVE ERROR: OD: -1.00 sphere
OS: -1.00 sphere

SLIDE EVALUATION FORM

SLIDE NO# 130

AGE: 21

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: M - F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue grey--green--brown

REFRACTIVE ERROR: OD -1.00 sphere

OS -1.00 sphere

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP--BLURRED--OTHER: Indistinct nasally

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .6/.6 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS Large disc

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

X SCLERAL CRESCENT (6-12 o'clock)

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

X LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 131

AGE: 21

SEX: M F

RACE: Caucasian

REFRACTIVE ERROR: OD -1.00 sphere

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue grey--green--brown

OS -1.00 sphere

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: ROUND OTHER: _____

B) MARGINS: SHARP BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 7/6 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED

RETICULATED/BLONDE

RED

SLATE GREY

BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

X SCLERAL CRESCENT (1-4 o'clock)

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 29

SLIDE# 132 & 133

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 2 **3** 4 5 (dark)

HAIR COLOR: (blonde) 1 2 **3** 4 5 (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: Plano
OS: Plano

SLIDE EVALUATION FORM

SLIDE NO# 132

AGE: 29

SEX: (M) F

RACE: Caucasian

REFRACTIVE ERROR: OD Plano

SKIN TYPE:(fair) 1 2 (3) 4 5 (dark)

HAIR COLOR:(blonde) 1 2 (3) 4 5 (black)

EYE COLOR: blue--grey--green--(brown)

OS Plano

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: OVAL (ROUND) OTHER: _____

B) MARGINS: (SHARP) BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 (3) 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .1/.1

(VESSELS) (COLOR)

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: (I) II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 (2/3) 4/5 OTHER: _____

B) VESSEL REGULARITY: H-(0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 (1) 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT (ABSENT)

B) FOVEAL REFLEX: PRESENT (ABSENT)

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

X CHOROIDAL CRESCENT (10-12 o'clock)

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS,(CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

___ RETINAL SHEEN

X VESSEL VARIATIONS (mild tortuosity)

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 133

AGE: 29

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: M - F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano

OS Plano

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 3/.2 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: II/IV

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

X CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

X CHOROIDAL NEVUS ($\frac{1}{2}$ DD above the macula)

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

X VESSEL VARIATIONS (tortuosity)

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 27

SLIDE# 134 & 135

SEX: M

RACE: CAUCASIAN

SKIN TYPE: (fair) 1 **2** 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 **3** 4 5 (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: Plano
OS: Plano

SLIDE EVALUATION FORM

SLIDE NO# 134

AGE: 27

SKIN TYPE:(fair) 1 2 3 4 5 (dark)

SEX: (M) F

HAIR COLOR:(blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano

OS Plano

FUNDUS: (OD) OS

I. OPTIC DISC:

A) SHAPE: (OVAL) ROUND--OTHER: Tilted nasally

B) MARGINS: (SHARP) BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .3/.3 (VESSELS) COLOR

B) POSITION: (CENTRAL) SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 (2/3) 4/5 OTHER: _____

B) VESSEL REGULARITY: H-(0) 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-(0) 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: (TESSELLATED) RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: (PRESENT) ABSENT

B) FOVEAL REFLEX: (PRESENT) ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS,(CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ X NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

SLIDE NO# 135

AGE: 27

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: (M) F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Caucasian

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD Plano

OS Plano

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: OVAL--ROUND--OTHER: Tilted nasally

B) MARGINS: SHARP--BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 3/3 VESSELS COLOR

B) POSITION: CENTRAL SUPERIOR-INFERIOR-NASAL-TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 23

SLIDE# 136 & 137

SEX: F

RACE: CAUCASIAN

SKIN TYPE: (fair) ① 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 ② 3 4 5 (black)

EYE COLOR: ③ blue grey green brown

REFRACTIVE ERROR: OD: -2.00 sphere
OS: -2.00 sphere

SLIDE EVALUATION FORM

SLIDE NO# 136

AGE: 23

SEX: M F

RACE: Caucasian

REFRACTIVE ERROR: OD -2.00 sphere

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

EYE COLOR: blue grey--green--brown

OS -2.00 sphere

FUNDUS: OD OS

I. OPTIC DISC:

A) SHAPE: OVAL ROUND OTHER: _____

B) MARGINS: SHARP BLURRED OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V 4/3

VESSELS COLOR

B) POSITION: CENTRAL-SUPERIOR-INFERIOR-NASAL TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED

RETICULATED/BLONDE

RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

___ NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

SLIDE EVALUATION FORM

AGE: 29

SLIDE# 138 & 139

SEX: M

RACE: ORIENTAL

SKIN TYPE: (fair) 1 2 **3** 4 5 (dark)

HAIR COLOR: (blonde) 1 2 3 4 **5** (black)

EYE COLOR: blue grey green **brown**

REFRACTIVE ERROR: OD: -3.00 sphere
OS: -3.00 sphere

SLIDE EVALUATION FORM

SLIDE NO# 139

AGE: 29

SKIN TYPE: (fair) 1 2 3 4 5 (dark)

SEX: (M) F

HAIR COLOR: (blonde) 1 2 3 4 5 (black)

RACE: Oriental

EYE COLOR: blue--grey--green--brown

REFRACTIVE ERROR: OD -3.00 sphere

OS -3.00 sphere

FUNDUS: OD (OS)

I. OPTIC DISC:

A) SHAPE: OVAL -ROUND--OTHER: tilted nasally

B) MARGINS: SHARP -BLURRED--OTHER: _____

C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

A) C/D RATIO: H/V .45/.4 VESSELS COLOR

B) POSITION: CENTRAL-SUPERIOR-INFERIOR-NASAL TEMPORAL

C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____

B) VESSEL REGULARITY: H-0 1 2 3 4

C) ARTERIAL LIGHT REFLEX (ALR): A-0 1 2 3 4

IV. POSTERIOR POLE:

A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

A) REFLEX: PRESENT ABSENT

B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

___ CILIO-RETINAL ARTERY

___ PIGMENT CRESCENT

___ CHOROIDAL CRESCENT

___ SCLERAL CRESCENT

___ GLIAL TISSUE

___ EPIPAPILLARY MEMBRANE

___ MEDULLATED NERVE FIBERS

___ LAMINA CRIBROSA

___ CHOROIDAL NEVUS

___ DRUSEN

___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)

___ CONGENITAL HYPERTROPHY OF THE RPE

X NERVE FIBER LAYER

___ RETINAL SHEEN

___ VESSEL VARIATIONS

___ NEVUS OF THE DISC

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REFERENCES

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SLIDE EVALUATION FORM

SLIDE NO# _____

AGE: _____ SKIN TYPE: (fair) 1 2 3 4 5 (dark)
SEX: M - F HAIR COLOR: (blonde) 1 2 3 4 5 (black)
RACE: _____ EYE COLOR: blue--grey--green--brown
REFRACTIVE ERROR: OD _____
OS _____

FUNDUS: OD OS

I. OPTIC DISC:

- A) SHAPE: OVAL--ROUND--OTHER: _____
B) MARGINS: SHARP--BLURRED--OTHER: _____
C) RIM COLOR (TRC): (light pink) 1 2 3 4 5 (dark red)

II. OPTIC CUP:

- A) C/D RATIO: H/V _____ VESSELS--COLOR
B) POSITION: CENTRAL-SUPERIOR-INFERIOR-NASAL-TEMPORAL
C) ELSCHNIG: I II III IV OTHER: _____

III. RETINAL VESSELS:

- A) A/V RATIO: 1/4 1/2 2/3 4/5 OTHER: _____
B) VESSEL REGULARITY: H- 0 1 2 3 4
C) ARTERIAL LIGHT REFLEX (ALR): A- 0 1 2 3 4

IV. POSTERIOR POLE:

- A) OVERALL COLOR: TESSELLATED RETICULATED/BLONDE
RED SLATE GREY BLACK

V. MACULA:

- A) REFLEX: PRESENT ABSENT
B) FOVEAL REFLEX: PRESENT ABSENT

VI. VARIATIONS:

COMMENTS _____

- ___ CILIO-RETINAL ARTERY
___ PIGMENT CRESCENT
___ CHOROIDAL CRESCENT
___ SCLERAL CRESCENT
___ GLIAL TISSUE
___ EPIPAPILLARY MEMBRANE
___ MEDULLATED NERVE FIBERS
___ LAMINA CRIBROSA
___ CHOROIDAL NEVUS
___ DRUSEN
___ BEAR TRACKS, (CONGENITAL GROUPED HYPERTROPHY OF THE RPE)
___ CONGENITAL HYPERTROPHY OF THE RPE
___ NERVE FIBER LAYER
___ RETINAL SHEEN
___ VESSEL VARIATIONS
___ NEVUS OF THE DISC